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10 30 50 70 90  
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110 130 150 170  
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M A Q Y K G T M R E A G R A M H L L K K R E S  
190 210 230 250 270  
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Q R E Q M E V L K Q R I A E E T I L K S Q V D K R F S A H Y  
290 310 330 350  
CGACGCGCTGGAGCGCGAGCTGAAGTCCAGCAGCGTGGGCTGGTGACCTGAACGACATGAAGGCCCGCAGGAGGCCCTGGTCAGGGA  
D A V E A E L K S S T V G L V T L N D M K A R Q E A L V R E  
370 390 410 430 450  
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R E R Q L A K R Q H L E E Q R L Q Q E R Q E Q E Q R E R  
470 490 510 530  
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K R K I S C L S F A L D D L D D Q A D A A E A R R A G N L G  
550 570 590 610 630  
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R N P D V D T S F L P D R D R E E E E N R L R E E L R Q E W  
650 670 690 710  
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E A Q R E K V K D E E M E V T F S Y W D G S G H R R T V R V  
730 750 770 790 810  
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R K G N T V Q Q F L K K A L Q G L R K D F L E L R S A G V E  
830 850 870 890  
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Q L M P I K E D L I L P H Y H T F Y D F I I A R A R G K S G  
910 930 950 970 990  
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P L F S F D V H D D V R L L S D A T M E K D E S H A G K V V  
1010 1030 1050 1070  
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L R S W Y E K N K H I F P A S R W E A Y D P E K K W D K Y T  
1090 1110 1130 1150 1170  
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I R  
1190 1210 1230 1250  
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1270 1290 1310 1330 1350  
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1370 1390 1410 1430  
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1450 1470 1490 1510 1530  
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1550 1570 1590 1610  
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Fig. 1

10 30 50 70 90  
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 110 130 150 170  
 CTACACTTTAACTCAGTGTCCATGGTTATTAGAGCTTAGAACCCGGGGGAACTGCTGTATAGAAGAGGTCAAACAAAGCTGAGTGCAGG  
 190 210 230 250 270  
 TTTTGTACGAAACTGGGGGGCGAGTAGGGTTCTATTATCAAAGAATGGTTGTGTTGGGGCCATAAGAAAGAATTACAGGCAGTGGTGGC  
 290 310 330 350  
 CAGGTAATGTTTACGAGACGCCACAGCGGGTAGCATCAGAGGCGGAGCAGGAGGGTTGGAGAGCAGGGCCGTGTGCAGAGCTCTCTG  
 370 390 410 430 450  
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 470 490 510 530  
 GGGGCCCCCTGCCCCACAGCCTGAAACAGGAGCCCCGGCCAGCCACGGCTGGGCAAGGCCCTCCTCCAGGATCCTCCCCG  
 550 570 590 610 630  
 CGCTGGCCCCCCCCACAGGAGCACCGCCCCCTACCAGGAGCCCGAGCTCTTCCAGGGCCCGCTCCCCGCCAGGGGGCGATCCACCTCC  
 650 670 690 710  
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 730 750 770 790 810  
 GTGTCCACGGCTGTGCGAGAGCCCCGGGGCAGTGGGCTCTGCTCGTGGTGGTTCTCGTGGAGTCAAGTCCCCGCTGTCTCCGCTCG  
 830 850 870 890  
 ACAGGTGCTTGGGAGGTAAAGGTCGCTCAGTAGCCCAACCTCTCTGTATGCAGCTCCCCAAATTCAGCGCTGGCTCAGGCATGGC  
 910 930 950 970 990  
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 1010 1030 1050 1070  
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 1090 1110 1130 1150 1170  
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 1190 1210 1230 1250  
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 1270 1290 1310 1330 1350  
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 1370 1390 1410 1430  
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 1450 1470 1490 1510 1530  
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 1550 1570 1590 1610  
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 1630 1650 1670 1690 1710  
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 1730 1750 1770 1790  
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 1810 1830 1850 1870 1890  
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 1910 1930 1950 1970  
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 1990 2010 2030 2050 2070  
 CTCAGCGAGCGCACCATGGAGAAAGGACGAGTCCGACCGGGCAAGGTGGTGTGCGCAGCTGGTACGAGAAGAACAAGCAGCATCTCCCC  
 2090 2110 2130 2150  
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 2170 2190 2210 2230 2250  
 GGGGGAGACACTCATTCTAGGCCCCATCAGCAGTCACTTGATTCGTGACCTTGATTCTTCCCCCAATTTAATAAGACAGAGGGT  
 2270 2290 2310 2330  
 TCTCATGATTCACATTGGTGTGCTATTGCTGATGTTATGCTTGGTGGCTTGGTGGCTTTTCTGAGTATTTAGTGTGCCACCTGG

Fig. 2

Fig. 2 (cont'd)

2350 2370 2390 2410 2430  
ATTGCTGCATTGCTCTGCTGAGCTGTATTGAAACCATGACTGGGCCCACTGTCAGACAGAAATTAGAATAGGAGGCACATTTTTTACCT  
2450 2470 2490 2510  
GGTGGTTATGAGCATGGACTTGGGGGCCACAGTGACTGAGTTTGATTCCCGACACAGCCTCCTCCTTGCTGTGTAGTTTGGGTAAGCTT  
2530 2550 2570 2590 2610  
ATTAAACCCCATGCCTCAGTTTGGTCACCTGTAAAAGGAAATAACAAGAGCAGCTTACTTTATAAGATTGATGTGAGTATTAAGTGAATT  
2630 2650 2670 2690  
AATATTTGTAAAACGCTTAGCTCTTAATAAATGTTTCTGTTGTTATTATTATGGTTTTGGTTAATTTATTAAAGGACTGCAATGACCTA  
2710 2730 2750 2770 2790  
GTTCAGAACTATTTGAGGGCAAAGGTGGAACCTGCCCATCAGTGGTCCCAGGATCAGCAGTTGCCAGCAGGAGGGGGCTAGCAAAGGTTGG  
2810 2830 2850 2870  
GGAGCAGCCCCCTCTAGTGGGCTTTAGCTGGGTGTTTAGCCCAAGTTAGGAGGACAGTGAGCTAATGCAAGTAGCCTGCAG

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10 30 50 70 90  
 ATTTCGCAAAAGCACCAGAAGGAAGAGTCTTGGCTCATACATCAAAAGCTGCAGAATCTGTGAAGTACATCAGACCCAGAGGCTACCAAG  
 110 130 150 170  
 AAACAGGGAGTGGGCGAGGCCAAAAAGCCTTGGCTGAAGTGCAGGCGATGGCGCAGTACAAAGGCACCATGCGGGAAGCTGGCCGGGCCAT  
 M A Q Y K G T M R E A G R A M  
 190 210 230 250 270  
 GCACCTGATCAAGAAGCGTGAGAGCAGAGAGGAGGAGTGGAGCAGCGCATCGCAGAGGAGACCATCATGAAGTCAAAAGT  
 H L I K K R E K Q K E Q M E V L R Q R I A E E T I M K S R V  
 290 310 330 350  
 GGACAAGAGTTCTCGGCACACTACGACGCGTGGAGGCGGAGCTGAAGTCCAGTACGGTGGGCTGGTGACCCTGAATGACATGAAGGC  
 D K K F S A H Y D A V E A E L K S S T V G L V T L N D M K A  
 370 390 410 430 450  
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 K Q E A L L R E R E M Q L A K R E Q L E Q R R I Q L E M L R  
 470 490 510 530  
 CGAGAAGGAGCGAAGGCGAGAGCGCAAGCGCAGATCTCAACCTGTCTTTCAGCTTGGACGAGGAAGAAGCTGACCAAGAGGACAGCCG  
 E K E R R R E R K R K I S N L S F T L D E E E G D Q E D S R  
 550 570 590 610 630  
 CCAAGCCGAGAGTGCCGAGGCCCAAGTGTGGAGCCAAAGAACTGGGCAAGAATCCGATGTGGACACGAGCTTCCTGCCCGACCC  
 Q A E S A E A H S A G A K K N L G K N P D V D T S F L P D R  
 650 670 690 710  
 CGAGCCGAGGAGGAGGAGAACCGGTGGCGGAGGAAGTGGCGCAGAGTGGAGGCGGAAGCGCGACAAGTGAAGGGCGAGGAGGTGG  
 E R E E E E N R L R E E L R Q E W E A K R E K V K G E E V E  
 730 750 770 790 810  
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 I T F S Y W D G S G H R R T V R M S K G S T V Q Q F L K R A  
 830 850 870 890  
 GCTGCAGGGGCTGCGCAGGGACTTCCGGGAGCTGGGGCAGCGGCGCTGAGCAGCTCATGTACCTCAAGGAGGATCTCATCTGCGGCA  
 L Q G L R R D F R E L R A A G V E Q L M Y V K E D L I L F H  
 910 930 950 970 990  
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 Y H T F Y D F I V A K A R G K S G P L F S F D V H D D V R L  
 1010 1030 1050 1070  
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 L S D A T M E K D E S H A G K V V L R S W Y E K N K H I F P  
 1090 1110 1130 1150 1170  
 TCCCAGCCGCTGGGAGCCCTACGACCCCGAAGAAGTGGGACAGGTACACCATCCGGTGATGCCAAGTCCAGTTTGGGGACCTTACTC  
 A S R W E P Y D F E K K W D R Y T I R  
 1190 1210  
 CCTAACTATCGAAAAATTAAATAAATACAGAGGGTCCCCGTAATCGGA

Fig. 3

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10      30      50      70      90
CTAAAACTGAAAGTTATTCTGATCAACCACTACTATACCACATGCAAAATGGAGTCAGAGCTTCTGTCTCCTCTGTAGCTAAGATCACT

110     130     150     170
AATGAGTTATTGTATGAAAAGGCAATAAAATCATGCTGTCTGGAGAGTGCCAATACTTTCAGACTAGTGTATCACGTAAACTCTTTAGTA

190     210     230     250     270
ACAACTACACACAAAAATTTAATCTGTAATAATCAAAGGCCCAAGTGAGCAACGACAGTCCAGGAAAACTTCATGGGAGGATTGCAATTT

290     310     330     350
CAGTTGTCAAGAGATCAGACGCTGGCAGCAGGACTGCATCCATCAGTCAGTCCAAGTCGGCAGTTATACATGACCAACCACTGATTGGCC

370     390     410     430     450
CAATCTCTGTCTCTGATTGGTTAGAGCCTGCTTAGCAGTGGCCAATGTTTTCGATATTTCTGTGTCAAGTTAGAACAAACAATATTCGC

470     490     510     530
AAAAGCACCAGAAGGAAGAGTCTTGGCTCATACATCAAAAGGTGAGGGGACTGGCTTGAATCCAGCTGGGGCAGATGTGGAGGTACAGC

550     570     590     610     630
TCTTTAAACTCGAGTAAACCAATTGTGAAGGGAGTTGAATGTTAGAGGAAAGGAATTTGTCCATTATCCTGCAAGCAGGGGAGACTAAT

650     670     690     710
GAGCCCTATCGGTGACATAATATCAACATTTTATTGTAATTTAGGAATCACAACCTAGCAGGAAGGAGGAAGATGCCTTAAAGGGCTAT

730     750     770     790     810
GACATATGCATAGGAAAAAGAAATGGGGCTTGTCTCTCTATTGGTTGCTTTTCACTGCTGTGTCAAAAGCAACCTAAGGAGGAGGA

830     850     870     890
AAGGGTTTATTTGATTGACTGTTTGACTCACATTTAATCTTGACAGCAAGTTGGCAGAAGCACGGAGTCAATGTTGTTTCTGTAGTCAGA

910     930     950     970     990
AAGCCGAGCAAGATAAGGAAGTGCCTTCATCTGCCCTTTCCCTATTCTCTCTTCTACTAGGTCTGAGACTCAGCCCCATGGGCATGGTAAG

1010    1030    1050    1070
GCCATGTTCAAGATGGTTTGTCTTTCTCTAGTTAAATCTTTCTGAAAATACTCCACAGACAACATGCCAAGAGCTGTGTATCCTAAGG

1090    1110    1130    1150    1170
TTCCAAATCTGTAGTTGACAAGATTAAACATTACATGAGTCTCACTCTTAACTCAGGTCTGATACTGTAGCTTATAGTACTGAAA

1190    1210    1230
GCATACTGAAGGCTTCTGTCTCTGCTAGATTGCTCTGAACCTCTCTTTCTGCCACTGCAG

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Fig. 4 (A)

10 30 50 70 90  
 GAATTCAAAACAAGCCAGGGACAGCATGAGCTTTAAAGCAGCTTCCGATATCAAAGAAAAGAAAGATGCTACGGAAATGCCGAGGAAACÀ  
 110 130 150 170  
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 190 210 230 250 270  
 TTTGGGGGACÀCAGTTTGGAGTTTGGAAAGAGTTTGATAAGAGGATGCCAGCTGTTTCATGGGAATGAGAGTCCACCAGTÀAAGAAGGAGC  
 290 310 330 350  
 TACAGAAGGGTTGGGAGGCÀCTCGTAGAGAGCGGTCAATTCAAGTTGAGTCCAGTTAAATTAAGAGATCTCTCTTTTCCCTTGACTGAAG  
 370 390 410 430 450  
 CACAGAGAAAACACTTTGTÀCTTGGCCCATCTCTGTGCÀTGCAAGTCCCTGATGTCTTGTCTCTCACGGCAAGGGAGGAGAGCTCAG  
 470 490 510 530  
 AGTTCTTTTGTGTACTTTAAGCACTGACACAAAGTGAGTTCCACTAAAACCTCATGCAAAAATCGTTCCTAAGACTTGTGCTAGGATGAAÀ  
 550 570 590 610 630  
 GCTCCTTGGGATCTGCCAAGACCATAACATTAACGGGAGCTTAACCTAGCÀTCATCACCCCTCCAGGTGCÀGCTAGGGGAAGCTTTCAAGG  
 650 670 690 710  
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 730 750 770 790 810  
 ACACGGTTTTCACCTTGACCCAGCTTCACTGTGGCTAGTCTCAGGAACCCAGGCCAGGCTCTCTCATTTGCTCTGCTCTTGCATGGCT  
 830 850 870 890  
 GTGCATGAGCAGACACGGGÀGAGCATGTGGTTTGCTCTGCAGACCAACCTCTACATGCAAAACCCCTCAAÀÀCCTACTGTACTAACTCAGTÀ  
 910 930 950 970 990  
 GTCACATGAGGCTATCTCAGTTTGAAGTAAAATGCTCCGTTGGTGACAGTAGTTGCATTTCAAGTACTGAGGGGCTTCTGTGATCAGT  
 1010 1030 1050 1070  
 AGTTACCACÀTCGGGTACCCCTGGAGACAGACTCATCAGAGAGGAAGCTCATTGTAGGGCTCTGGTGTÀGACCATTAAATGACGCAGCTG  
 1090 1110 1130 1150 1170  
 TACTGGTTTGATTTCTCGAGCGTTTGTGTTAGTTGTGTTGTTTGTCTTCTAGCTGCAGAAATCTGTGAACTGACATCAGACCCAGAA  
 1190 1210 1230 1250  
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 1270 1290 1310 1330 1350  
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 1370 1390 1410 1430  
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 1450 1470 1490 1510 1530  
 CATGAAGGCCAAGCAGGAGGÀCCTGCTGAGGGAGCGGAGATGCAGCTGGCCAGAGGGAGCAGCTGGAGCAACGCTGGATACAGCTGGÀ  
 1550 1570 1590 1610  
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 1630 1650 1670 1690 1710  
 GGACAGCCGÀCAAGCCGAGAGTGCCGAGGÀCCACAGTGTCTGGAGCCAAAGAAAGAACTTGGGCAAGAAATCCCGATGTGGACÀCGAGCTTCTT  
 1730 1750 1770 1790  
 GCCCCAGCCGÀGAGCGCAGGAGGAGGAGAAACCGGTTGCGCGAGGAACTGCGGAGGAGTGGGAGGCGAAGCGGAGAAAGTGAAGGGCGÀ  
 1810 1830 1850 1870 1890  
 GGAGGTGGAGATCACCTTCAGCTACTGGGÀTGGCTCCGGCÀCACCAGCGGCÀCGGTGCGCATGAGCAAGGGCAGCACGGTGCAGCAGTTCTT

Fig. 4 (B)

1910 1930 1950 1970  
GAAGCGGGCGCTGCAGGGGCTGCGCAGGGACTTCCGGGAGCTGCGGGCAGCGGGCGTGGAGCAGCTCATGTACGTCAAGGAGGATCTCAT  
1990 2010 2030 2050 2070  
CCTGCGCGCACTATCACACCTTCTACGACTTCATCGTGGCCAAAGCCCGGGGCAAGACCGGCCCGCTCTTCAGCTTCGACGTGCACGACGA  
2090 2110 2130 2150  
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2170 2190 2210 2230 2250  
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2270 2290 2310 2330  
ACCTTACTCCCTAACTATCGAAATTAATAAATACAGAGGGTCCCCGTAAATCGGATGTGTGGTTCTGTACCTGGCGTCATTCTTCGGT  
2350 2370 2390 2410 2430  
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2450 2470 2490 2510  
GGCCAGCAGACTGGGTTTGATTTCTTGCTCAATGTCTTACTTGTGTTGTGAGCAAAATCATTCGGTCAATTGACTCCTTTCCCCACC  
2530 2550 2570 2590 2610  
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2630 2650 2670 2690  
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2710 2730 2750 2770 2790  
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2810 2830 2850 2870  
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2890 2910 2930 2950 2970  
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2990  
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Fig. 4 (B) (cont'd)

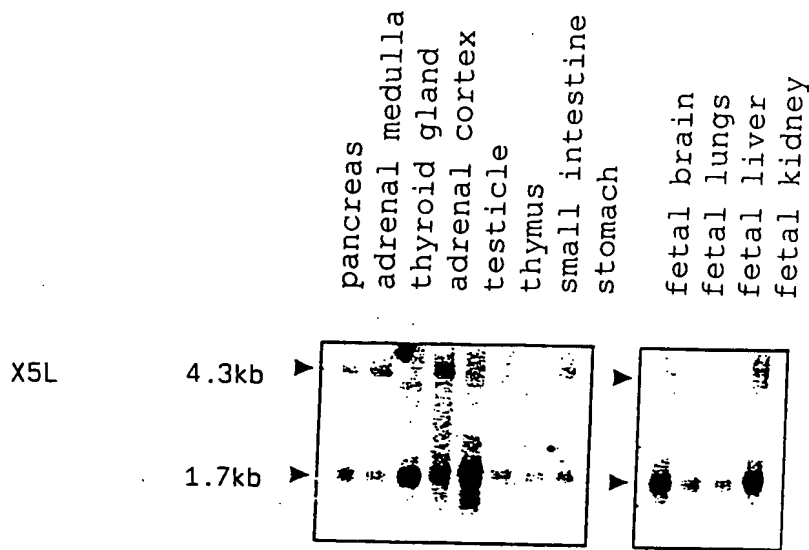


Fig. 5



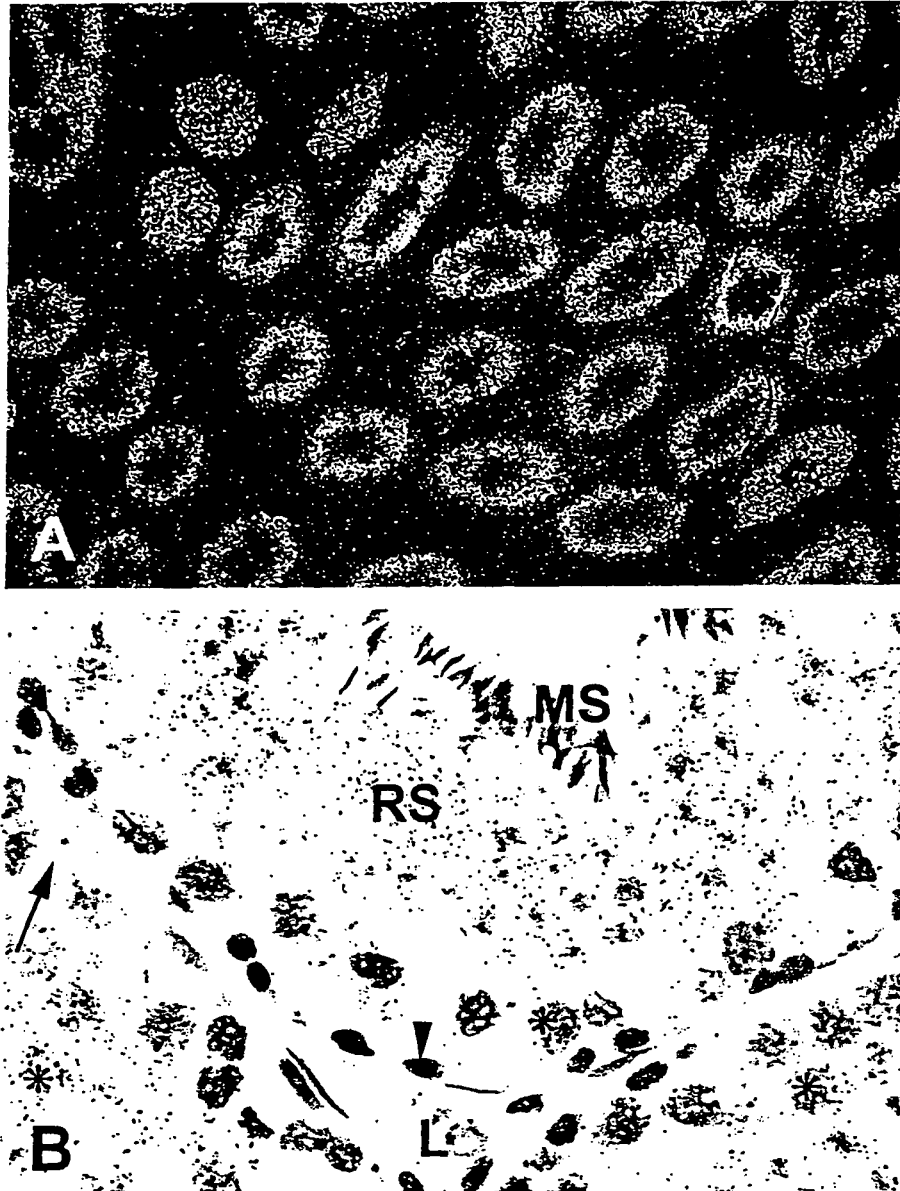


Fig. 6